

Title (en)
BOBBIN HOLDER, THREAD WINDER, THREAD PACKAGEMAKING DEVICE, THREAD WINDING METHOD, AND THREAD PACKAGEMAKING METHOD

Title (de)
Spulenhalter und Verfahren und Vorrichtung zum aufwickeln von Faden

Title (fr)
DISPOSITIF DE MAINTIEN DE BOBINE, BOBINEUR DE FIL, DISPOSITIF DE BOBINAGE DE FIL, PROCEDE DE BOBINAGE DE FIL, ET PROCEDE DE BOBINAGE DE FIL

Publication
EP 1120375 A1 20010801 (EN)

Application
EP 00949985 A 20000803

Priority
• JP 0005226 W 20000803
• JP 22120299 A 19990804

Abstract (en)
A bobbin holder of a yarn winder includes a holder body, a bobbin holding and handling member, elastic members deformable according to the movement of the bobbin holding and handling member, spacers maintaining the elastic members at predetermined intervals and transmitting the movement of the bobbin holding and handling member to the elastic members, and a cylindrical support member attached to a turret and rotatably supporting a drive shaft. The holder body has a boss portion for connection to the drive shaft and hollow portions to accommodate the bobbin holding and handling member and the cylindrical support member on either side of the boss portion. The boss portion has annular projections extending into the hollow portions. Also, the boss portion has at least one portion in which the amount of increase in the inner diameter of the boss portion (d1) and the amount of increase in the outer diameter of the drive shaft (d2) due to a centrifugal force during rotation satisfies the relationship of $(d1 - d2) < 20 \mu m$. <IMAGE>

IPC 1-7
B65H 54/547; **B65H 75/12**

IPC 8 full level
B65H 54/547 (2006.01); **D01D 7/00** (2006.01)

CPC (source: EP KR)
B65H 54/10 (2013.01 - KR); **B65H 54/547** (2013.01 - EP); **B65H 2601/524** (2013.01 - EP); **B65H 2701/31** (2013.01 - EP)

Citation (search report)
See references of WO 0110762A1

Cited by
WO2016150737A1

Designated contracting state (EPC)
DE

DOCDB simple family (publication)
EP 1120375 A1 20010801; CN 1319069 A 20011024; JP 2001039626 A 20010213; KR 20010075524 A 20010809; TW 492945 B 20020701; WO 0110762 A1 20010215

DOCDB simple family (application)
EP 00949985 A 20000803; CN 00801598 A 20000803; JP 0005226 W 20000803; JP 22120299 A 19990804; KR 20017004155 A 20010331; TW 89115698 A 20000804